

Application No.: 10/005669

Case No.: 57172US002

AMENDMENTS TO THE CLAIMS

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended): A curable adhesive composition comprising
polyacrylate component comprising an acrylic acid reactive functional
group containing acrylic acid,
epoxy component, and
cationic initiator,
wherein the uncured adhesive exhibits properties of a pressure sensitive adhesive and is optically clear such that
the luminous transmission of the composition is greater than 90%,
the haze of the composition is less than 2%, and
the opacity of the composition is less than 1%,
wherein the uncured, curable adhesive can be cured to form an adhesive comprising an inter-reacted
interpenetrating polymer network, and
wherein after aging the cured adhesive at 90°C for 500 hours
the luminous transmission of the cured and aged adhesive is greater than 90%,
the haze of the cured and aged adhesive is less than 2%, and
the opacity of the cured and aged adhesive is less than 1%.
2. (original): The adhesive of claim 1 wherein after aging at 80°C and 90% relative humidity for 500 hours
the luminous transmission of the cured and aged adhesive is greater than 90%,
the haze of the cured and aged adhesive is less than 2%, and
the opacity of the cured and aged adhesive is less than 1%.
3. (original): The adhesive of claim 1 wherein the cured adhesive consists of a single phase.
4. (cancelled)

Application No.: 10/005669

Case No.: 57172US002

5. (cancelled)

6. (cancelled)

7. (cancelled)

8. (original): The adhesive of claim 1 wherein the polyacrylate component is a polymer derived from free-radically polymerizable monomers selected from the group of acrylates, methacrylates, acrylic acids, and methacrylic acids.

9. (original): The adhesive of claim 1 wherein the polyacrylate component is a polymer derived from acrylic acid monomer.

10. (original): The adhesive of claim 1 comprising an epoxy component selected from the group consisting of aromatic and cycloaliphatic epoxy components.

11. (original): The adhesive of claim 1 wherein the cationic initiator comprises photoactivated cationic initiator.

12. (original): The adhesive of claim 11 wherein the photoactivated cationic initiator is selected from the group consisting of an iodonium salt, a sulfonium salt, and mixtures thereof.

13. (original): The adhesive of claim 1 comprising a photosensitizer.

14. (original): The adhesive of claim 1 comprising a free-radical photoinitiator selected from the group consisting of benzoin ethers, substituted benzoin ethers, substituted acetophenones, substituted alpha-ketols, aromatic sulfonyl chlorides, photoactive oximes, and mixtures thereof.

15. (original): The composition of claim 1 comprising a grafting agent.

Application No.: 10/005669

Case No.: 57172US002

16. (original): The composition of claim 15 wherein the grafting agent is 4-acryloxy benzophenone.

17. (original): The composition of claim 15 comprising an epoxy-acrylate compound.

18. (original): The composition of claim 15 comprising crosslinker.

19. (original): The composition of claim 18 wherein the crosslinker comprises a multifunctional acrylate or (meth)acrylate.

20. (original): The composition of claim 18 wherein the crosslinker is selected from the group consisting of hexanediol diacrylate, trimethylolpropane triacrylate, and mixtures thereof.

21. (original): The composition of claim 1 comprising from about 5 to about 55 parts by weight epoxy per 100 parts by weight epoxy and polyacrylate.

22. (original): The composition of claim 1 comprising from about 10 to about 50 parts by weight epoxy per 100 parts by weight epoxy and polyacrylate.

23 – 41 (cancelled)

42. (currently amended): An optical element comprising a first material layer bonded to a second material layer by a layer of the adhesive of claim 1, wherein at least one of the first and second materials layers is an outgassing layer comprising polycarbonate or acrylic.

43. (cancelled)